



RESEARCH DATA MANAGEMENT POLICY

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Supporting documents, procedures & forms of this policy:	Authorship Policy Code of Practice – Responsible Conduct of Research Copyright Policy Appointment of Visiting and Honorary Academics Policy Intellectual Property Policy HDR Supervision and Resources Policy IT Server Security Policy Cyber Security Policy Privacy Policy Records Management Policy Research Data Management Guidelines Research Integrity and Conduct Policy: Breaches, Concerns and Complaints Open Access Policy Travelling Overseas with Devices Procedure Defence Trade Controls Guideline Data Governance Procedure		
Relevant Legislation & External Documents:	Australian Code for the Responsible Conduct of Research - 2018 NHMRC, ARC & Universities Australia: Management of Data and Information in Research: A Guide Supporting the Australian Code for the Responsible Conduct of Research - 2019 National Statement on Ethical Conduct in Human Research – 2007 (updated 2018) AIATSIS Code of Ethics for Aboriginal and Torres Strait Islander Research - 2020 OECD Principles and Guidelines for Access to Research Data from Public Funding Principles for accessing and using publicly funded data for health research (2016)		



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	<p>Code of Ethics for Aboriginal and Torres Strait Islander Research</p> <p>Copyright Act, 1968 (Commonwealth)</p> <p>Privacy Act, 1988 (Commonwealth)</p> <p>Privacy and Personal Information Protection Act, 1998 (NSW)</p> <p>Security of Critical Infrastructure Act 2018</p> <p>State Records Act, 1998 (NSW)</p> <p>GA 47 - Higher & further education and research records</p> <p>Higher Education Standards Framework (Threshold Standards) – 2021 (sections 4.1, 5.2 & 6)</p>
Audience:	Public

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1 Purpose of Policy

1. The University of Wollongong (UOW) adopts the following policy on Research Data Management, in accordance with relevant legislation and guidelines. This policy:
2. aligns with [UOW's Strategic Goals](#) and forms part of the UOW governance framework for research data management;
3. supports UOW's commitment to the Australian Code for the Responsible Conduct of Research (2018), hereto referred to as 'The Code';
4. supports data management requirements of funding bodies including the Australian Research Council's (ARC) requirement for the management of data within grant applications, and the National Health and Medical Research Council's (NHMRC) [Principles for accessing and using publicly funded data for health research](#);
5. explains UOW's expectations in relation to the collection and management of research data and primary materials, including the responsibilities of staff, affiliates, students, faculties, schools and research units;
6. demonstrates UOW's commitment to supporting the reproducibility of research, sharing information, re-use and promoting ethical conduct in research, in accordance with the [FAIR](#) (Findable, Accessible, Interoperable, Reusable) Data Principles and the [CARE](#) (Collective Benefit, Authority to Control, Responsibility, Ethics) Principles for Indigenous Data Governance; and
7. guides Researchers and Research Students to fulfil their responsibility to "retain clear, accurate, secure and complete records of all research including research data. Where possible and appropriate, allow access and reference to these by interested parties", as required by The Code.
8. The UOW Research Data Management Guidelines, hereto referred to as the "RDM Guidelines", accompany this policy and provide further advice on its practical implementation.

2 Definitions

Word/Term	Definition (not limited to)
Aboriginal and Torres Strait Islander research	Includes all research that impacts or is of particular significance to Aboriginal and Torres Strait Islander peoples, including planning, collection, analysis and dissemination of information or knowledge, in any format or medium, which is about and may affect Indigenous peoples both collectively and individually. This also extends to the use of collections such as archives, datasets, collections of information or biospecimens that may not otherwise be categorised as human research.
Data license	Defines the permissions, term and conditions for the reuse of data.
Indigenous Cultural and Intellectual Property (ICIP)	Indigenous peoples' tangible and intangible cultural heritage as reflected in article 31 of the United Nations Declaration of the Rights of Indigenous Peoples. It includes: Indigenous Cultural Expression;



	Indigenous Biological Resources; and Indigenous Knowledge.
Indigenous Cultural Expression	Tangible and intangible forms in which Indigenous Knowledge and cultures are expressed, communicated, or manifested. This includes but is not limited to languages, art, stories, photographs, paintings, music, oral histories, games and films that express the collective heritage of the Indigenous clan or community from which it comes.
Indigenous Biological Resources	Genetic resources, organisms, flora, fauna, and seeds used and nurtured by Indigenous people throughout the generations.
Indigenous Knowledge	Understandings, beliefs, and traditions that have been transmitted from generation to generation and has cultural connections to the Indigenous community from which it came. Includes knowledge held by Indigenous people about how to cultivate biological resources, control populations, or otherwise engage in environmental management.
Indigenous Data Sovereignty	The right of Indigenous Peoples to own, control, access and possess data that derive from them, and which pertain to their members, knowledge systems, customs, resources or territories.
Intellectual Property (IP)	The property of the mind or proprietary knowledge, i.e., productive new ideas. This includes know how, registered and unregistered trademarks, copyright, patents, trade/business or company names, registered and registrable design rights, plant breeder's rights, circuit layouts and trade secrets, and all other intellectual property as defined by Article 2 of the Convention Establishing the World Intellectual Property Organisation, July 1967.
Lead Researcher	The Researcher responsible for the management and integrity of the design, conduct and reporting of the research project and any collaborative relationships.
Metadata	Information about the context, content, quality, provenance, accessibility and licensing arrangements that describes a research data set, for example collection title, chief investigator, description, collection period, access conditions and storage location.
Open Access	The immediate, online, free availability of research outputs without restrictions on use commonly imposed by publisher copyright agreements.
Primary materials	Physical objects acquired through a process of scholarly investigation from which research data may be derived. Examples include geological or biological material, artefacts, questionnaires, recordings, photographs, sketch books, logbooks, creative works, computer software and code, correspondence and documented processes.
Research data	The data, records, files or other evidence, irrespective of their content or



	<p>form (e.g., in print, digital, physical or other forms), that comprise research observations, findings or outcomes, including primary materials and analysed data.</p> <p>Indigenous Research Data include data generated by Indigenous Peoples or about Indigenous Peoples and territories. For Indigenous Peoples, collective consent and data privacy protections, supported via community-controlled data infrastructure, are essential to ethical Indigenous data practices.</p> <p>Research data referred to in this policy relates to data generated in research projects and is to be distinguished from the research performance data used by UOW for strategic purposes.</p>
Research data governance	The practice of setting policies, rules and processes that guide the use, development and protection of research data, and ensuring compliance with these regulations.
Research data management	All the processes and actions required to manage data throughout the research data lifecycle from project inception to permanent disposal or archiving. This includes generation, collection, access, use, analysis, disclosure, storage, retention, disposal, sharing and re-use of data.
Research data management plan	A document that outlines how and when the research data for a specific project will be collected, organised, stored, backed-up, preserved, shared, archived and disposed. Data management plans can be seen as ‘living documents’ and should be reviewed throughout the duration of the research project and updated as required.
Research data security	The protection of data from loss, unauthorised access use, disclosure, disruption, modification or destruction. Security must be maintained while data is both at rest and in transit.
Researcher	A person who is involved in conducting research under the auspices of UOW. This includes staff, honorary and visiting researchers and excludes students.
Research Student	An undergraduate or post-graduate student or HDR Scholar who is undertaking research at UOW as part of their degree.
Sensitive data	Data that needs to be protected from unauthorised access or unwarranted disclosure. UOW’s Data Governance Procedure can help to assign a suitable security classification to a dataset, based on its content and the potential consequences of exposure.

3 Application and Scope

1. This policy applies to all UOW Researchers and Research Students engaged in the collection, creation, curation, management and use/reuse of research data at UOW or in collaboration with other institutions.



2. All research is subject to the provisions of any relevant contracts, licences, funding agreements and collaboration agreements.
3. In cases where this policy conflicts with the legal requirements specified in research contracts (commercial or otherwise) including any data licences, the contract terms will take precedence over this policy, as long as they are compliant with The Code and any other relevant legislation. It is the responsibility of the Lead Researcher to ensure that the terms of the contract are met.
4. The Policy forms part of the UOW Code of Practice – Responsible Conduct of Research. Non-compliance with the requirements of the Policy may result in Researchers or the University being held legally responsible for breaches of legislation.
5. Breaches will be handled in accordance with the relevant UOW Policies and Procedures, such as the Research Integrity and Conduct Policy, the Research Misconduct and Complaints Management Procedure and/or applicable UOW [IT Policies](#).
6. Researchers and Research Students should ensure their data is managed in accordance with the FAIR Data Principles to maximise its visibility and potential for sharing and reuse.
7. Aboriginal and Torres Strait Islander research must be managed and shared in accordance with the CARE Principles for Indigenous Data Governance. These Principles are people and purpose-oriented, reflecting the crucial role of Research data in advancing Indigenous innovation and self-determination.

4 Ownership of Research Data

1. Research data and its associated intellectual property will be owned and used in accordance with UOW's Intellectual Property Policy, unless otherwise specified in funding agreements or agreed in writing by all parties involved in the project, prior to its commencement.
2. Indigenous Cultural and Intellectual Property rights must be respected when determining the appropriate ownership and use of research data resulting from projects involving Aboriginal or Torres Strait Islander peoples (in line with the [Australian Institute of Aboriginal and Torres Strait Islander Studies Code of Ethics for Aboriginal and Torres Strait Islander Research](#)).
3. In accordance with Indigenous Data Sovereignty Principles, Aboriginal and Torres Strait Islander peoples have the right to exercise ownership over Indigenous data. Ownership of data can be expressed through the creation, collection, access, analysis, interpretation, management, dissemination and reuse of Indigenous data.
4. UOW's assertion of research data ownership and rights of use is not intended to impede the use of such data by Researchers and Research Students for research and education purposes. Instead, it allows the University to manage the data in accordance with its legal, contractual and moral obligations and for long-term preservation, sharing, knowledge exchange and translation, where appropriate.
5. Where research is undertaken in collaboration with another external organisation(s), a written agreement that specifies the purpose and arrangements for the ownership, use, management, sharing, storage, accessibility, publication, retention, and disposal of the research data and primary materials, must be in place before the commencement of the project.
6. Researchers must ensure that the University has a record of the ownership and responsibility for any research data and records they have transferred into the University's control (e.g., for storage on University facilities).



7. Where no ownership or responsibility has been recorded, or the recorded responsible party is no longer a UOW Researcher, the relevant Dean or delegate will hold authority to decide on storage, retention, disposal, publication or licensing arrangements in compliance with legal and regulatory obligations.

5 Research Data Management Planning

1. A Research Data Management (RDM) Plan, created in UOW's Research Data Management Platform ReDBox, must accompany every new research project at UOW.
2. RDM Plans are required to facilitate storage provisions and may also be requested by external funding agencies. Project metadata and information relating to data access, ownership, sensitivity, storage, ethics requirements, sharing, retention and disposal are all documented in the RDM plan.
3. RDM Plans must be updated when the data management needs of the project change significantly from those documented in the existing plan. Revised plans must be shared with relevant members of the research project team promptly.
4. Researchers and Research Students should consider the future uses of their data and ensure that it is collected in accordance with relevant requirements specified in The Code. Assigning a suitable licence will define how others are allowed to use the data.
5. Further information about Research Data Management Planning and ReDBox is available in the [Guidelines](#).

6 Research Data Storage

1. UOW must provide facilities for the safe and secure storage of research data and primary materials, appropriate training and support services, and maintain metadata records.
2. As per the [UOW Code of Practice – Responsible Conduct of Research](#), data must be stored in a durable and appropriately referenced and retrievable form, in a safe and secure storage area, with clear and accurate records of research methods and data sources, in accordance with required retention periods.
3. Before using external commercial cloud storage applications, Researchers and Research Students should refer to the RDM Guidelines for information on recommended service providers.
4. When using removable and temporary storage media, Researchers and Research Students must:
5. Familiarise themselves with the data management limitations, issues and risks associated with storing research data on such devices.
6. Assume responsibility for the access control, security, back-up, and disposal processes that are required for effective research data management.
7. Ensure that all significant research data and primary materials are moved to the central storage facilities provided by UOW as soon as possible, and that location metadata is updated to reflect this change.

7 Classification, Security and Ethical Requirements of Research Data

1. Researchers and Research Students must review the UOW Research Data Security Classifications specified in the Guidelines and select a suitable security classification for the data they are generating or collecting as part of their research, based on its level of sensitivity.



2. Security classifications help to determine suitable approaches for the storage, sharing, publishing, ethics requirements, retention and disposal of research data and are particularly important for Sensitive Data.
3. Aboriginal and Torres Strait Islander research should be classified as either Restricted or Protected, depending on the severity of the impact arising from a potential breach, in accordance with the UOW [Data Governance Procedure](#).
4. Research data must be stored in an electronic format that is protected by appropriate security measures, electronic safeguards and/or physical access controls that restrict access only to authorised user(s) to maintain its safety, quality and integrity.
5. If a Researcher or Research Student leaves UOW and takes data or copies of data with them, they must ensure that an equivalent or higher level of security is in place in the new storage location.
6. Prior to travelling overseas, Researchers should review the UOW Defence Trade Controls Guideline and the UOW Travelling Overseas with Devices Procedure and ensure they comply with requirements.
7. Researchers and Research Students are responsible for the appropriate preparation of data in situations where commercial sensitivity, confidentiality and/or privacy issues require data to be encrypted or de-identified.
8. Data management for research involving human participants, their tissue or their data must comply with the [National Statement on Ethical Conduct in Human Research](#). Where data is identifiable or reasonably re-identifiable, the conditions of the consent provided by participants in relation to data retention, confidentiality, access and re-use must be complied with, in addition to the relevant legal and regulatory requirements.

8 Documentation and Metadata

1. Metadata must accompany the research data for as long as it is retained and must be updated as necessary.
2. Detailed descriptive metadata and other contextual information must be associated with qualitative and quantitative data collections to enable the interpretation and re-use of that data.
3. Where physical specimens have been generated using physical, chemical, biological, engineering or other such processes, a relevant metadata record of these processes must be included with the related data.
4. Any process, software program, script or code used to generate, annotate or analyse the research data must be documented and recorded in the metadata.
5. Where research data is not stored at UOW, Researchers must ensure that the metadata is stored at UOW, including details about its location.

9 Access, Reuse, Sharing and Licensing of Research Data

1. Research data and primary materials must be easily identified and quickly retrievable by authorised users for verification of research results and potential reuse where appropriate, unless subject to confidentiality or security provisions.
2. Researchers are encouraged to make their research data sets available under open licence for use by others, unless this is prevented for reasons of research integrity, by legislation, UOW policy,



ethical, confidentiality or contractual requirements or Indigenous Cultural and Intellectual and Property rights.

3. For research involving Aboriginal or Torres Strait Islander peoples, Researchers must provide access to Indigenous data owners to uphold Indigenous Cultural and Intellectual Property rights, in line with the [AIATSIS Code of Ethics for Aboriginal and Torres Strait Islander Research](#).
4. Aboriginal and Torres Strait Islander peoples have the right to exercise autonomy and governance over Indigenous data. This includes the right to autonomously decide how and why Indigenous Data are collected, accessed and used, to ensure that data on or about Indigenous peoples reflects Indigenous priorities, values, cultures, world views and diversity.
5. Where research data or records have been requested and access refused, the reasons must be transparent and justifiable. If research data sets cannot be made openly available, research metadata should be made available.
6. Where appropriate, research data and primary materials must be collected or generated, stored, and licensed in accordance with the FAIR data principles, with access allowed to interested parties. The license (such as one that is endorsed by the Creative Commons) must define how the data output may be lawfully used and specify the conditions for future reuse.

10 Retention, Archiving and Disposal of Research Data

1. Research data and primary materials must be retained in an accessible form for as long as they have continuing value, in accordance with periods specified by legislation, funding bodies, ethics approval processes, relevant policies (such as the [Records Management Policy](#)), patent law, regulatory requirements and discipline convention. Sufficient data must be retained to verify the outcomes of research.
2. When a Researcher or Research Student leaves UOW, any agreements concerning the management of their research data (i.e., ownership, retention, access etc.) must be reviewed.
3. Researchers and Research Students leaving the University must ensure that a copy of their research data and primary materials have been deposited into University facilities to support research integrity and retention obligations, as consistent with ethical, contractual or legislative requirements, and FAIR principles.
4. Where research data needs to be permanently archived, it must be saved in a format that is widely used and accepted as best practice within the research discipline, to ensure it is accessible in the future.
5. Researchers must retain, archive or dispose of Aboriginal and Torres Strait Islander Research Data, in accordance with the [AIATSIS Code of Ethics for Aboriginal and Torres Strait Islander Research](#) and other relevant legislation.
6. Where permanent disposal of research data is necessary, it must be planned, deliberate and irreversible, using secure disposal mechanisms so that the data cannot be retrieved.
7. Further information is available in the [Guidelines](#).

11 Roles and Responsibilities

1. Researchers, Research Students and Professional Services Staff employed by UOW will work in partnership to satisfy the requirements of The Code and the [UOW Code of Practice – Responsible Conduct of Research](#).



2. Researchers and Research Students are responsible for:
- a. Understanding and acting in accordance with this policy.
 - b. Familiarising themselves with relevant data and primary material management requirements and contractual obligations (if any) prior to undertaking research.
 - c. Creating a Research Data Management Plan and ensuring it is and adhered to and kept up to date.
 - d. Identifying and using the most suitable storage solution for their research data, records and primary materials and seeking advice where necessary.
 - e. Understanding the risks and limitations of third-party storage solutions and taking the necessary action to protect data stored on these services.
 - f. Determining appropriate sharing and publication arrangements and understanding the potential use and reuse of their data and being amenable to the application of licences to support this.
 - g. Adherence to the FAIR and CARE principles as required.
 - h. Reporting circumstances where a suspected or known security breach might have resulted in the unauthorised access, unintended disclosure, loss, theft, destruction or alteration of data, in accordance with the IT Security Policy and/or the Travelling Overseas with Devices Procedure.
 - i. Planning for the handover of research data collections, associated primary materials and research records at the conclusion of research projects or when a Researcher or Research Student leaves the University, including information about access to and potential re-use of data collections.
 - j. Ensuring that written agreements specifying data management arrangements are in place for their projects that span multiple institutions, in partnership with the UOW Research Services Office.
3. Research Student Supervisors are responsible for:
- a. Assisting Research Students under their supervision to:
 - i. Understand the relevant policies, contracts, regulations and licensing considerations that relate to research data management within their respective disciplines;
 - ii. Ensure a research data management plan is created before the research commences; and
 - iii. Access appropriate data and primary material storage infrastructure and advisory services.
 - b. Taking joint responsibility with their Research Students for the management of the Research Students' data and primary materials.
 - c. Discussing data collection with Research Students and arranging for appropriate access to the data if the Research Students wishes to leave it with UOW.
 - d. Encouraging Research Students to attend research data management training.
4. The Deputy Vice-Chancellor (Research & Sustainable Futures), Associate Deans (Research), Heads of School and Research Leaders are responsible for:



- a. Ensuring that staff understand how to manage their research data responsibly.
 - b. Modelling responsible Research data management behaviours to Researchers and Research Students.
 - c. Reporting incidents involving IT security breaches or the unintended disclosure, loss, or destruction of research data.
 - d. Approve the storage, retention, disposal, publication or licensing arrangements for research data and primary materials without a recorded and current responsible UOW Researcher.
 - e. Participating in research data governance processes.
5. The Dean of Graduate Research, Associate Deans (HDR), and Heads of Postgraduate Studies are responsible for:
- a. Ensuring that Research Students receive appropriate Research Data Management training.
 - b. Modelling responsible research data management behaviours to Research Students.
 - c. Reporting incidents involving IT security breaches or the unintended disclosure, loss, or destruction of research data.
 - d. Participating in research data governance processes.
6. Information Management and Technology Services (IMTS) is responsible for:
- a. Providing enterprise-level storage services and solutions, such as localised hardware/software solutions, networked storage, collaboration tools and file sharing utilities.
 - b. Providing technical support for enterprise storage services and solutions.
 - c. Ensuring centrally provided storage services and solutions are appropriately backed-up and maintained.
 - d. Ensuring the security of the systems and the data stored within. Reporting any security breaches, and system failures that may affect data integrity, to the Researchers and the University.
 - e. Educating relevant UOW staff about the differences, capabilities and functions of enterprise storage resources.
 - f. Participating in research data governance processes.
7. The University Library is responsible for:
- a. Providing subject-matter expertise on data management concepts, such as linked identifiers, metadata management, data licensing, data sharing and data citation.
 - b. Advising and guiding Researchers through established outreach and liaison services.
 - c. Participating in research data governance processes.
8. The Research Services Office is responsible for:
- a. Providing a central coordination point for research data management activities.
 - b. Advocacy and developing organisational awareness of research data management issues.



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- c. Providing advice, guidance and assistance to Researchers in the preparation of Research Data Management Plans.
 - d. Coordinating the preparation and execution of written agreements that specify the arrangements for data management, for projects that span multiple institutions, in partnership with the UOW Legal Services Unit.
 - e. Organising research data management training events and workshops in partnership with the Researcher Development and Integrity Unit, and the Graduate Research School.
 - f. Facilitating and supporting research data governance processes.
9. The Researcher Development and Integrity Unit is responsible for:
- a. Providing advice and assistance to Researchers to ensure their research data management practices comply with relevant legislation.
 - b. Coordinating investigations into potential breaches of this policy and supporting processes, in accordance with the [Research Integrity and Conduct Policy: Breaches, Concerns and Complaints](#).
 - c. Organising research data management training events and workshops in partnership with the Research Services Office.
 - d. Facilitating and supporting research data governance and ethics processes.
10. The University is responsible for:
- a. Providing appropriate infrastructure for the safe and secure storage and management of research data, primary materials and records and, where possible and appropriate, allow access and reference;
 - b. Providing relevant training in best practice research data management, including training in the effective use of research data infrastructure;
 - c. Ensuring Research Student Supervisors have the necessary skills, qualifications and resources to support their Research Students to comply with this policy; and
 - d. Supporting Researchers and Research Students throughout the entire research data management lifecycle.



12 Version Control & Change History

Version Control	Date Effective	Approved By	Amendment
1	2 December 2011	University Council	First Version
2	9 December 2016	University Council	Revised Purpose of Policy to better reflect how the policy supports the Australian Code for the Responsible Conduct of Research (2007) and the requirements of funding bodies.
3	7 February 2019	Deputy Vice-Chancellor (Research & Innovation)	Administrative amendment to language in clause 1.1. Update references to Australian Code for the Responsible Conduct of Research (2018), to align with new policy.
4	26 July 2023	Finance and Infrastructure Committee	Research Data Management Plans now mandatory for new projects. Sensitive data defined and incorporation of research data in UOW Data Governance Procedure. New sections on Data Reuse, Sharing and Ethics. Incorporated FAIR and CARE Data Principles. Alignment with the AIATSIS Code of Ethics for Aboriginal and Torres Strait Islander Research and Indigenous Data Sovereignty Principles. Responsibilities section expanded to align with UOW structural changes and incorporate Research Students.